

# Title VI of the Civil Rights Act

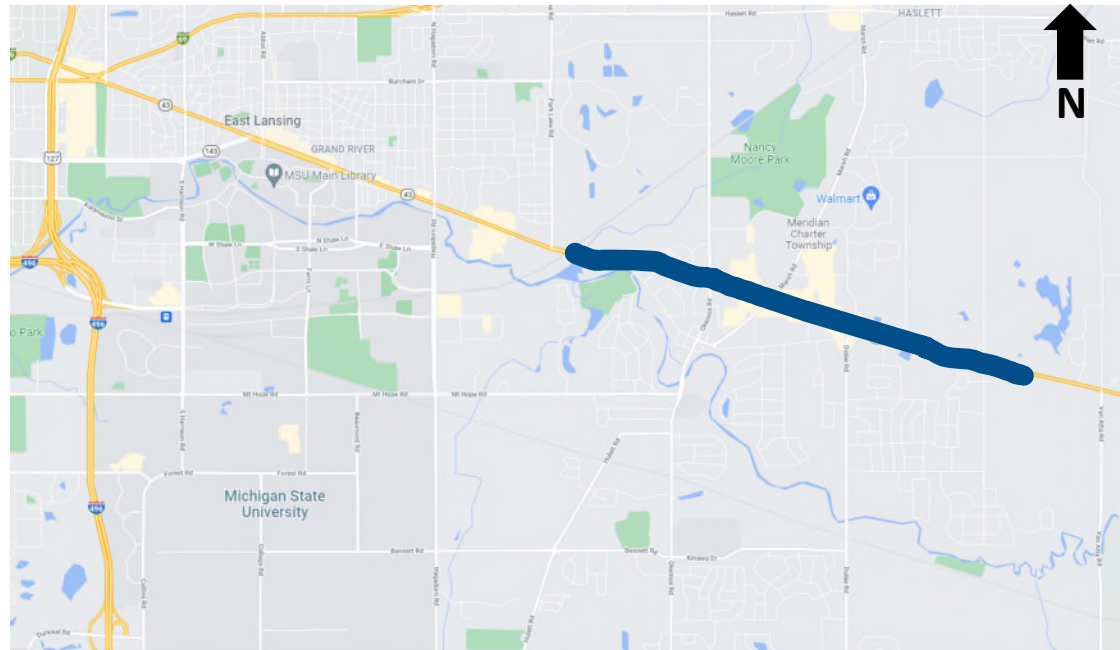
Title VI of the Civil Rights Act of 1964 requires MDOT to provide the opportunity for everyone to comment on transportation programs and activities that may affect their community.

Please take the three-question survey found in the back of the room.

You can help MDOT comply with Title VI and related statutes, which require the collection of statistical data to aid in assessing MDOT's outreach efforts among those who are affected or interested in this project.

# M-43 (Grand River) Corridor

- Urban five-lane
- 16,400 - 25,600 vehicles per day
- 3.2 miles long
- 0.45 miles of full roadway reconstruction
- Estimated cost: \$12,000,000
- Road work occurs 2022-2023



# Project Improvements

## **M-43 (Grand River) Mainline**

Roadway milling and multiple course asphalt resurfacing  
with Concrete Base repairs

Two areas of reconstruction-

1200' Concrete Reconstruction of M-43 at Nakoma Dr

1030' Concrete Reconstruction of M-43 at Okemos Road

- Both reconstruction areas will raise the grade of M-43 above the 10 year flood elevation
- Drainage improvements in the reconstruction areas will minimize future flooding events

ADA Ramp Improvements

Pedestrian Islands

Traffic signal improvements

Pavement Markings

# Project Improvements

## **MDOT partnering**

- Meridian Township to relocate 1085' of 16-inch Water Main
- Meridian Township provided the floodplain mitigation site
- Ingham County Drain Commissioner will be upgrading the Okemos Drain and Grettenberger Drain within the limits of MDOT's reconstruction.
- Ingham County Drain Commissioner has future plans to upgrade the the Grettenberger and Okemos Drains as part of the new Okemos Consolidated Drain

# M-43 @ Nakoma

## Known Flooding

May 19, 2020





# M-43 at Nakoma

## Known Flooding- lane closures required

May 21, 2020



# Flooding

**Known Flooding- Red Cedar River at Nakoma Bridge over  
the Red Cedar**      May 21, 2020





# Flooding

**Known Flooding- Indian Hills Golf Course** May 21, 2020





# Red Cedar River Information

## **FEMA Flood Insurance Study**

August 16, 2011

Upstream area of the Red Cedar River Watershed at Nakoma Drive  
337.9 square miles ~216,240 Acres

MDOT Contributing Area to Grand River trunk sewer (Mohawk to crest east of Marsh)  
~ 24 Acres

Effective: August 16, 2011



Federal Emergency Management Agency

**FLOOD INSURANCE STUDY NUMBER**  
**26065CV000A**

# Grade Raise

Flood Elevations at Nakoma were obtained from the FEMA Flood Study.

<u>Storm Event</u>	<u>Elev</u>	<u>Grade Raise (low point Grand River)</u>
500 Year	846.0	10 feet
100 Year	842.5	5 feet
50 Year	841.0	3.5 feet
10 Year	838.5	~2 feet

MDOT only could reasonably accommodate a ~2' grade raise without major impacts to the floodplain and adjacent properties. This in combination with the upgrades to the storm system will minimize flooding of the low areas. When the River is in flood conditions flooding may still occur.

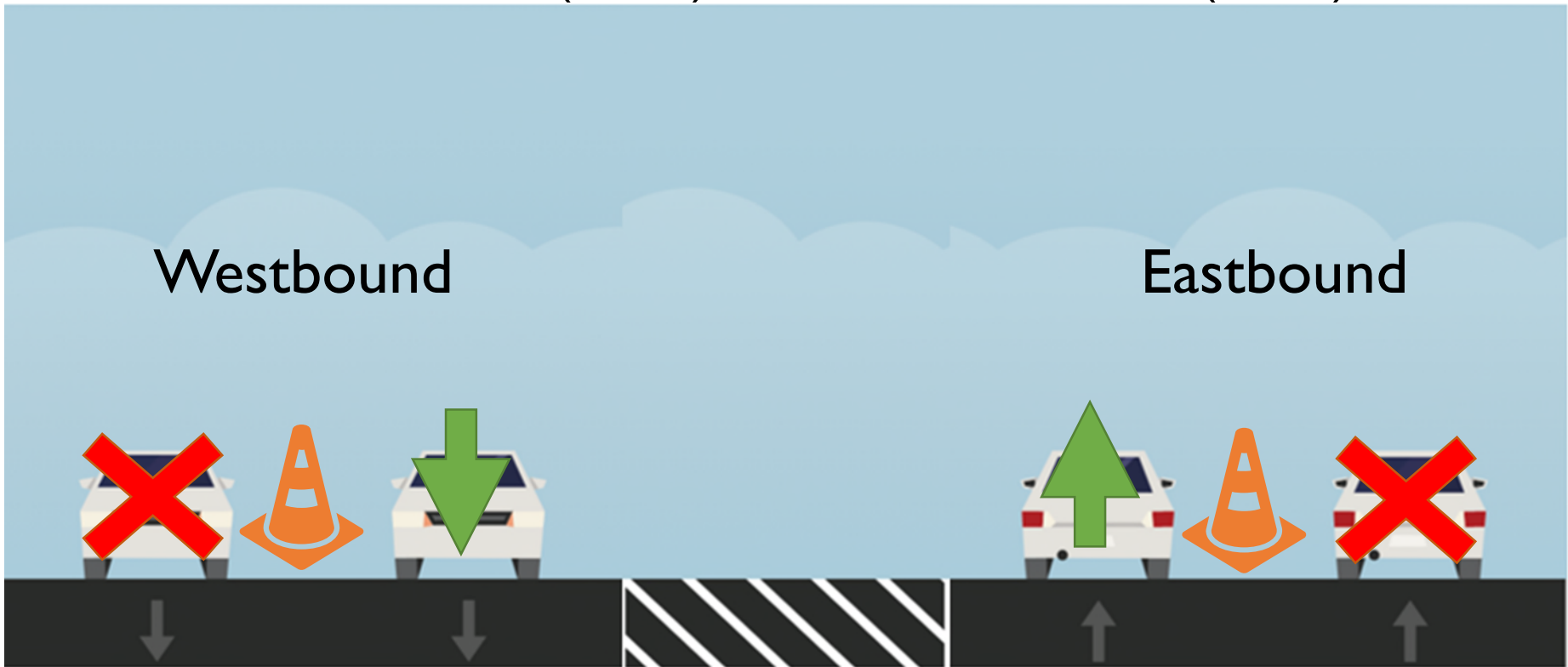
# M-43 Construction Traffic Pattern

## Stage 1 - 2022

Park Lake Rd (POB) to Oak Pointe Ct (POE)\*

Westbound

Eastbound



\* Gapping the reconstruction areas

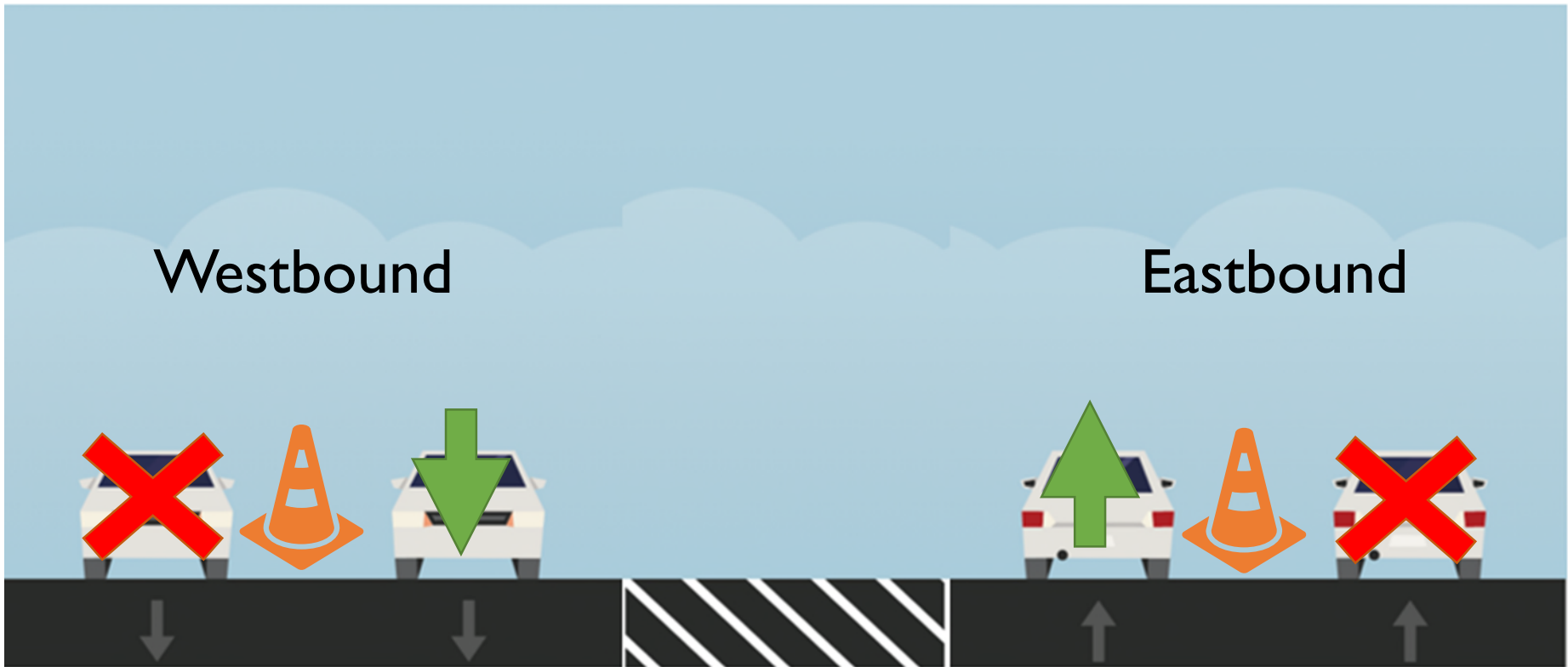
# M-43 Construction Traffic Pattern

## Stage 2A - 2022

150 ft West of Marsh Rd to Cornell Rd

Westbound

Eastbound

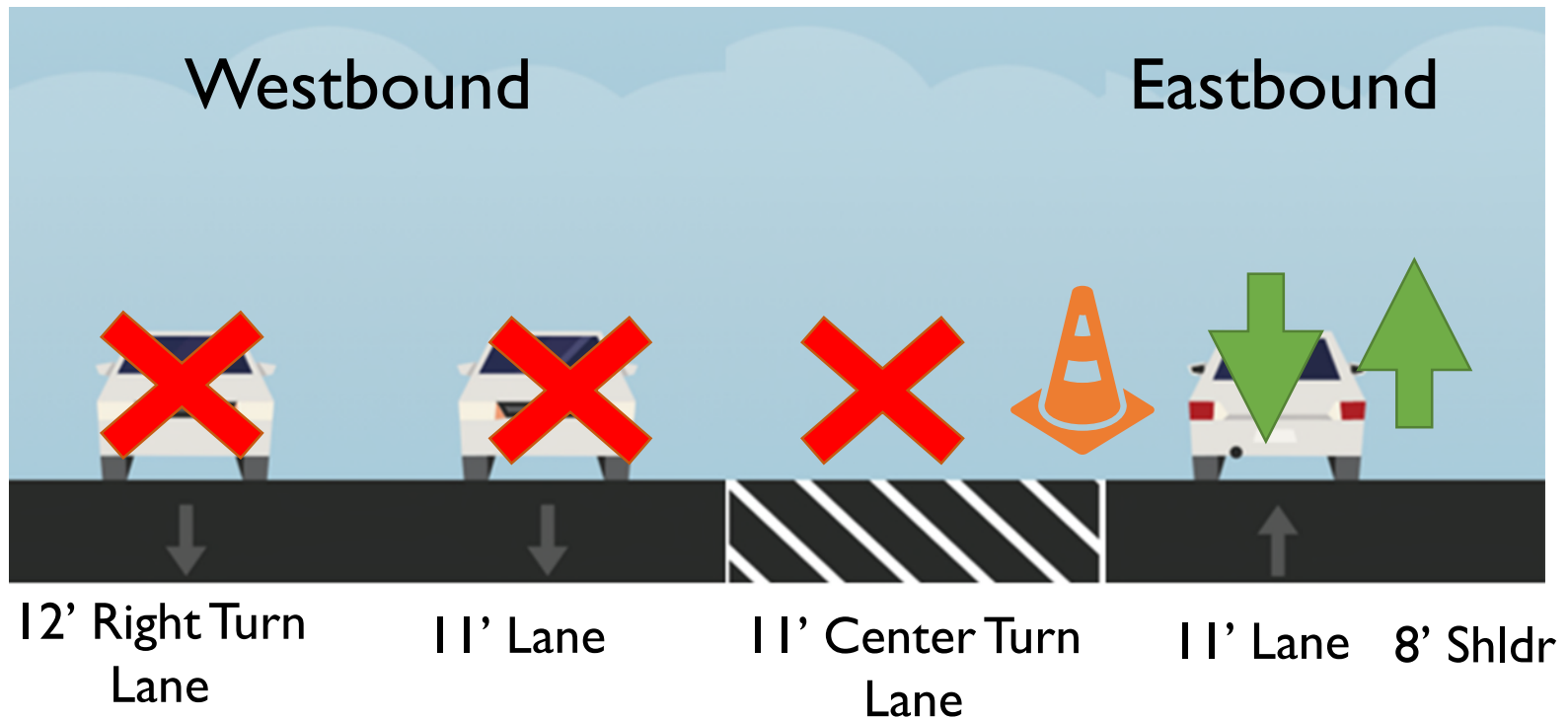




# M-43 Construction Traffic Pattern

## Stage 2B - 2022

Cornell Rd to Oak Point Ct (POE)



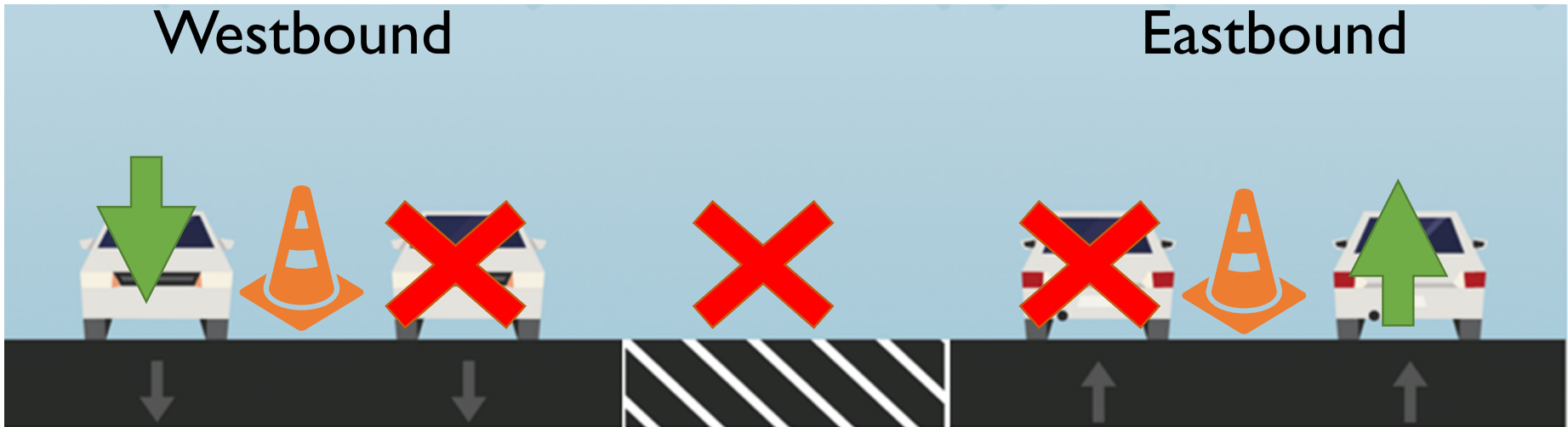
# M-43 Construction Traffic Pattern

## Stage 3A - 2022

150 ft West of Marsh Rd to Cornell Rd

Westbound

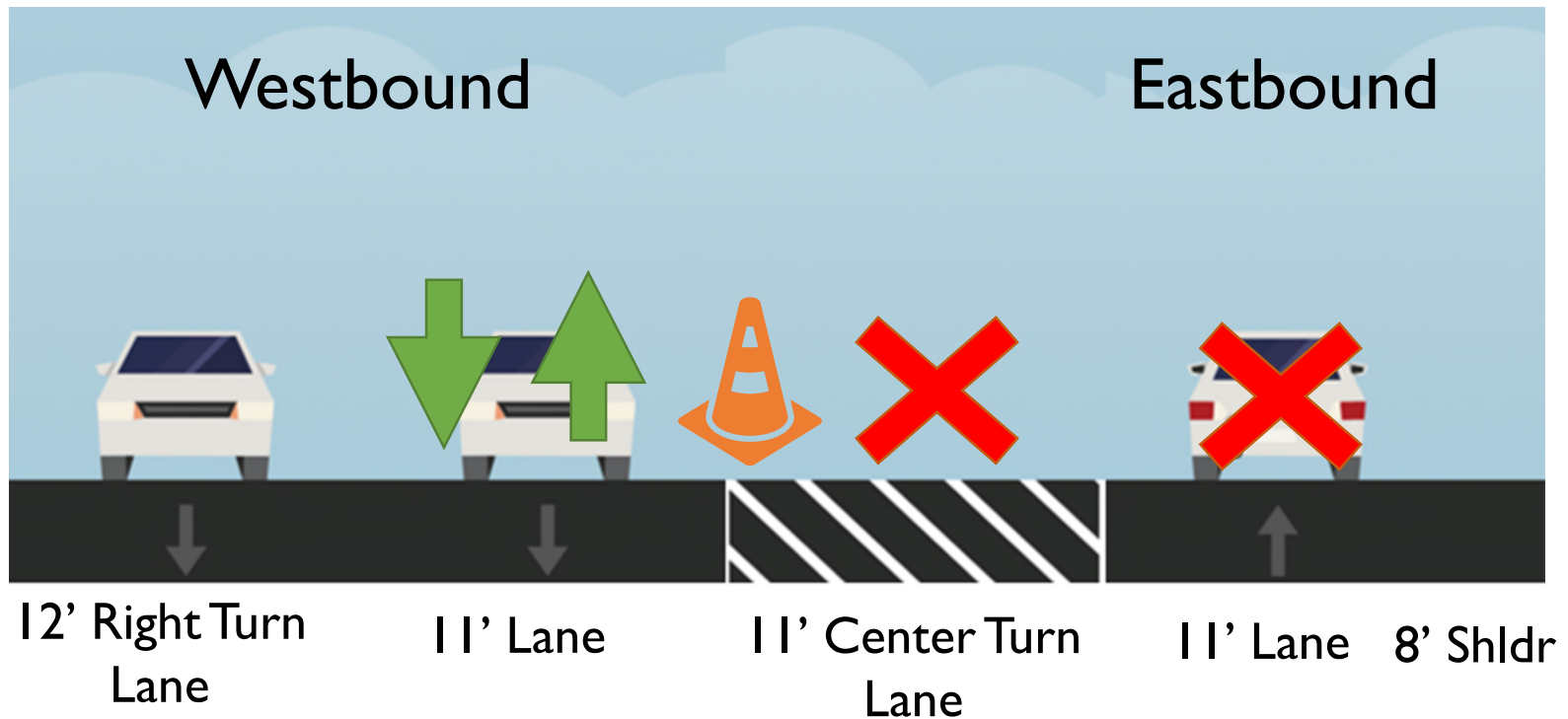
Eastbound



# M-43 Construction Traffic Pattern

## Stage 3B - 2022

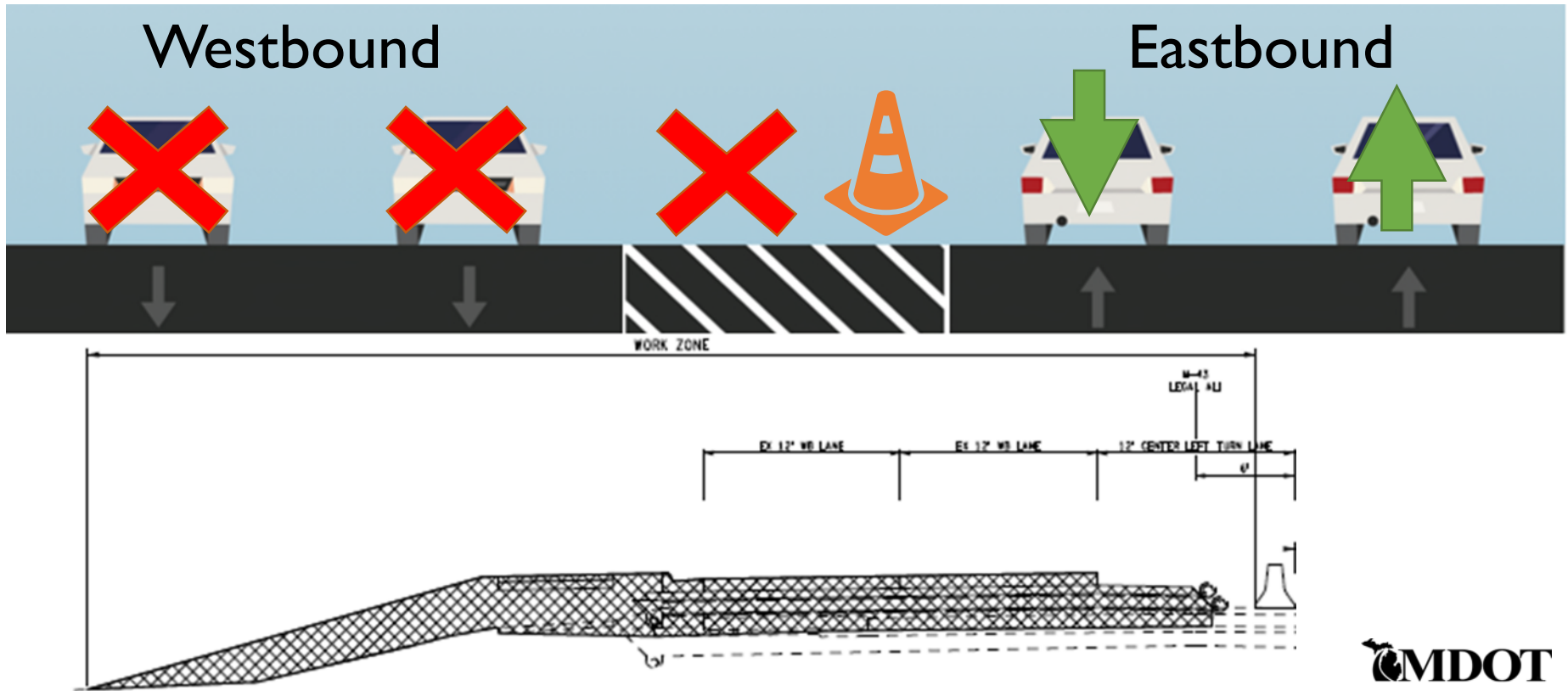
Cornell Rd to Oak Point Ct (POE)



# M-43 Construction Traffic Pattern

# Stage 4 - 2022

# Reconstruct North half of M-43 from Mohawk Rd to Montrose Ave and from Hillcrest Ave to 650 East of Okemos Rd





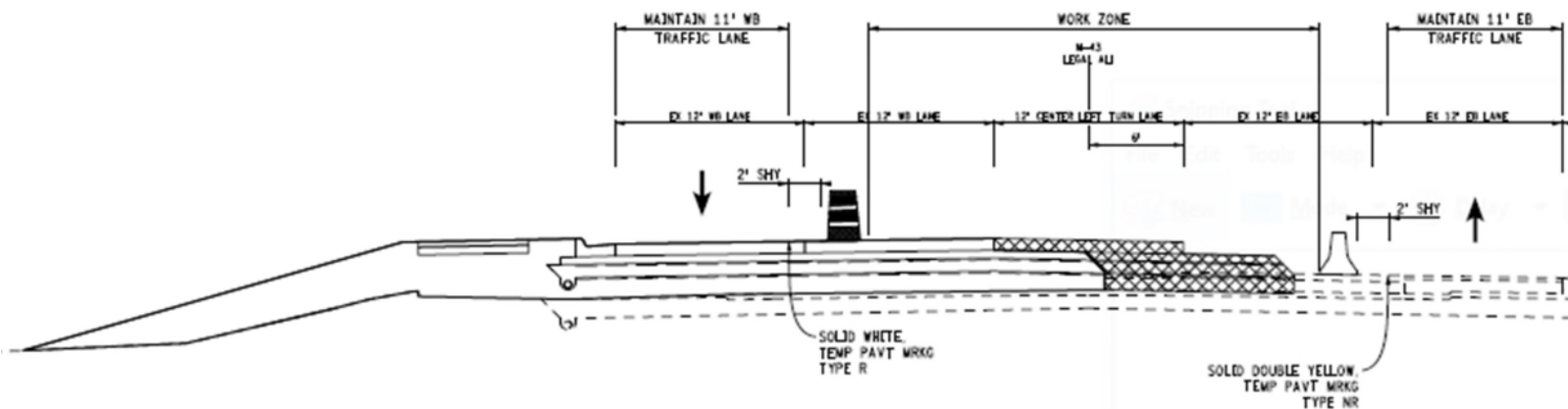
# M-43 Construction Traffic Pattern

## Stage 5 - 2022

Reconstruct Center Lane of M-43 from Mohawk Rd to Montrose Ave and from Hillcrest Ave to 650 East of Okemos Rd

Westbound

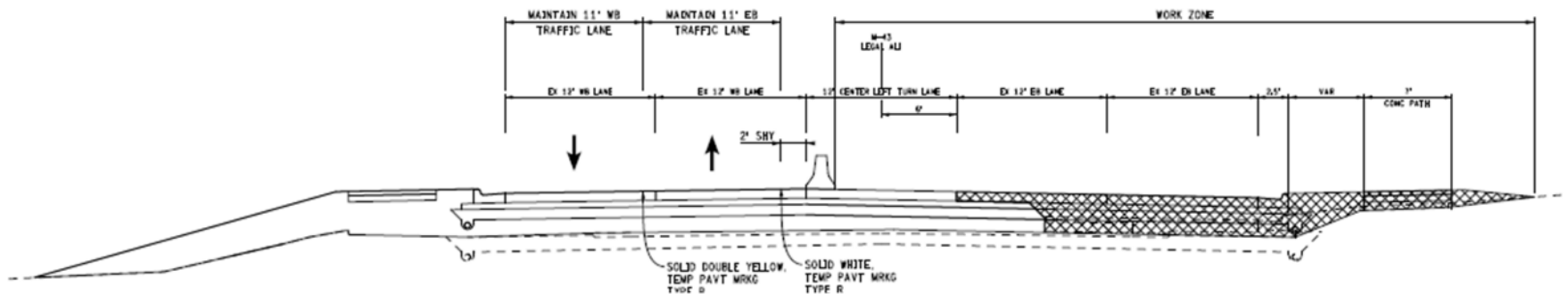
Eastbound



# M-43 Construction Traffic Pattern

## Stage 6 - 2022

Reconstruct South half of M-43 from Mohawk Rd to Montrose Ave and from Hillcrest Ave to 650 East of Okemos Rd



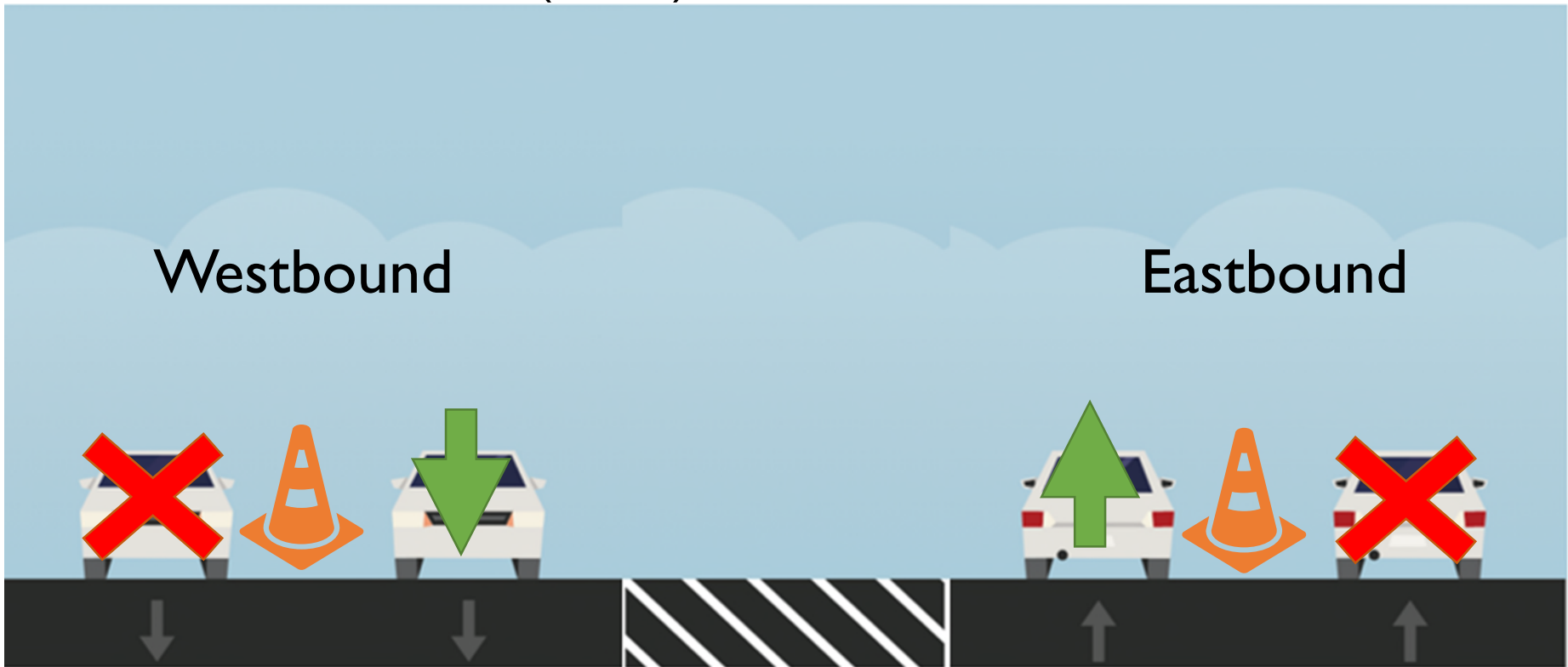
# M-43 Construction Traffic Pattern

## Stage 7 - 2023

Park Lake Rd (POB) to 150' West of Marsh Rd\*

Westbound

Eastbound



\* Gapping the reconstruction areas

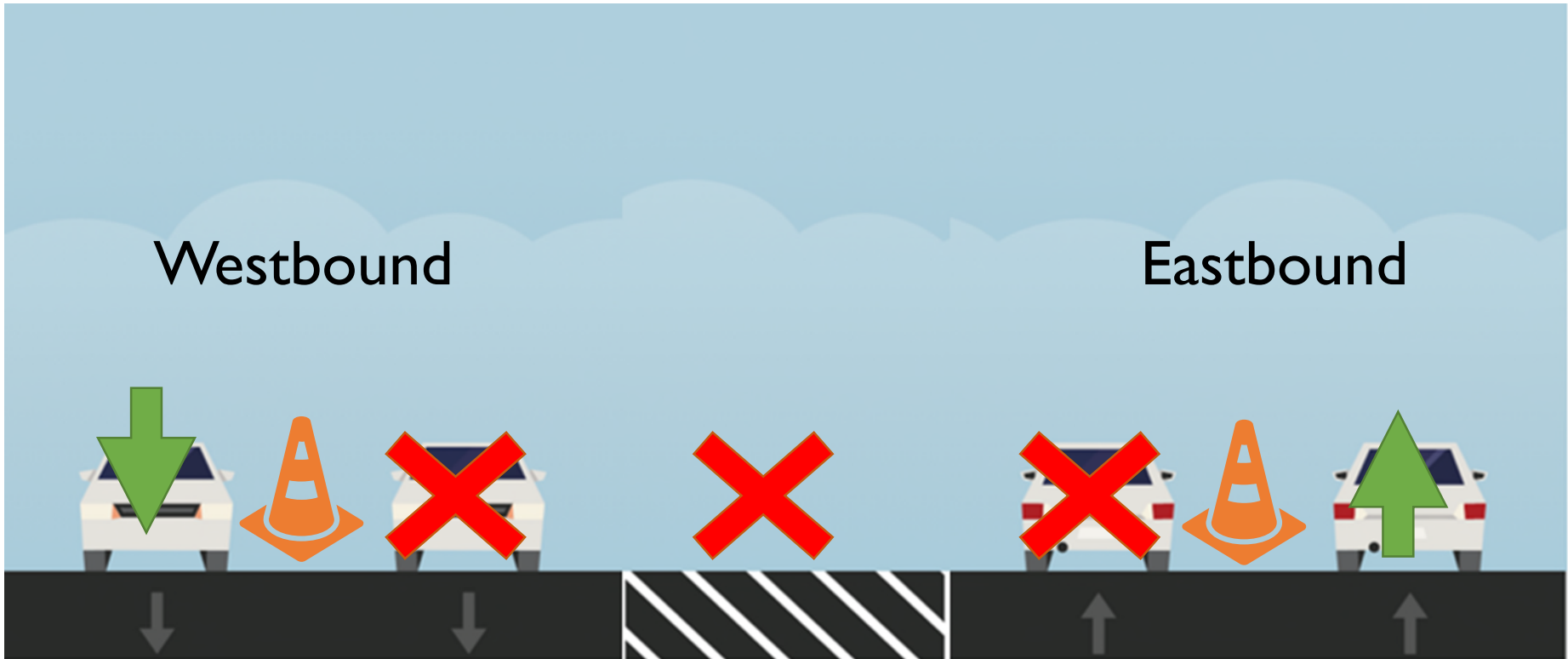
# M-43 Construction Traffic Pattern

## Stage 8 - 2023

Park Lake Rd (POB) to 150' West of Marsh Rd\*

Westbound

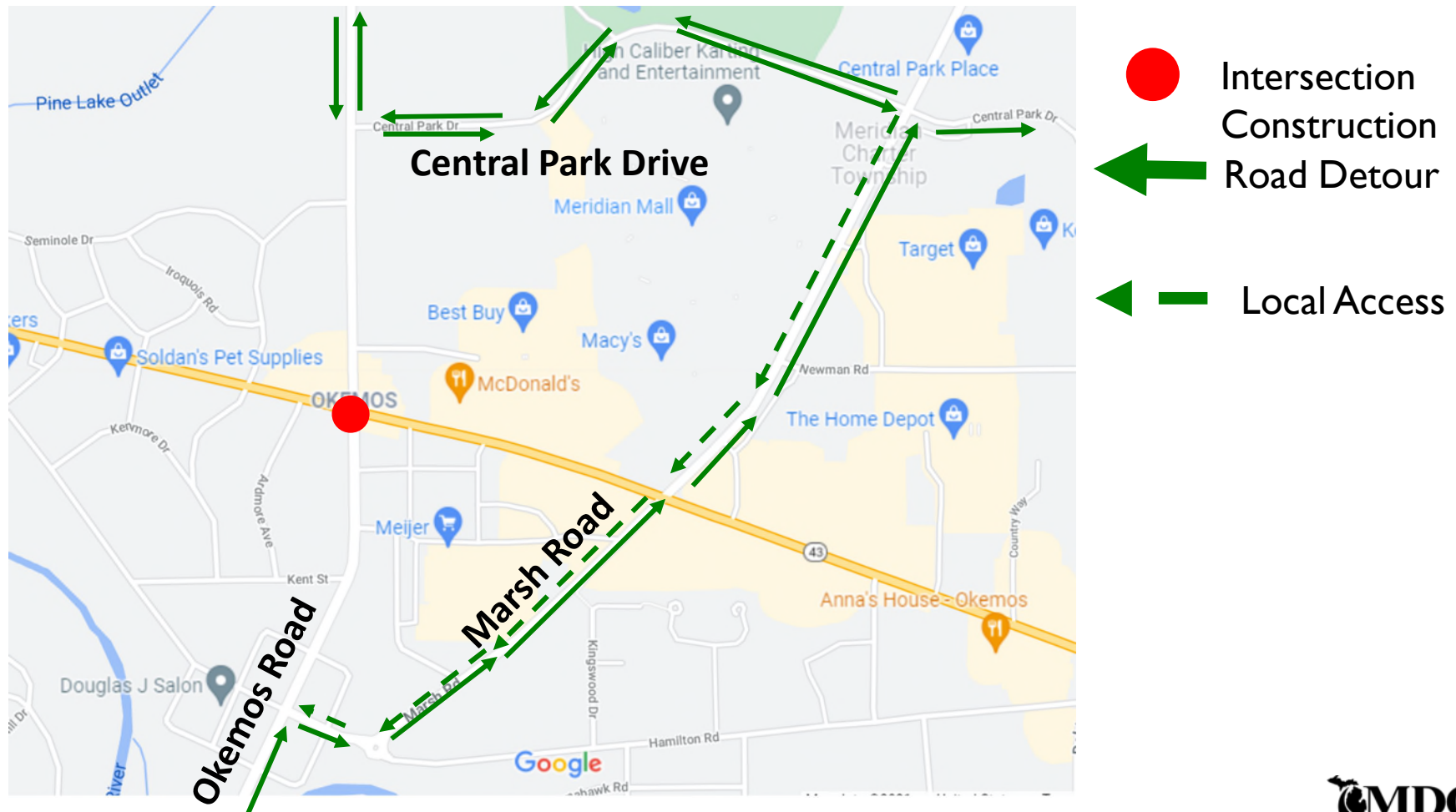
Eastbound





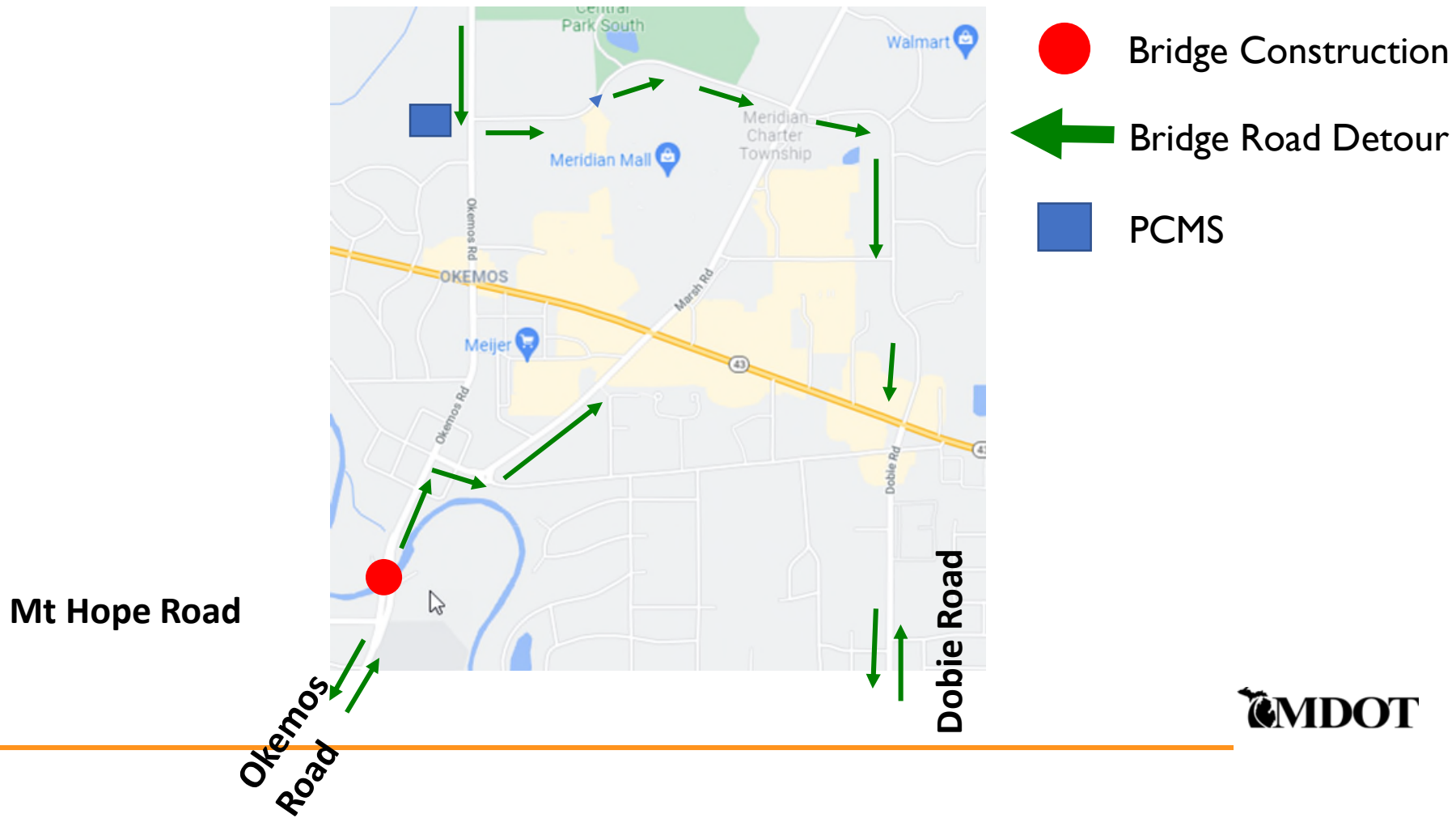
# M-43 Okemos Road Construction Detour

## Okemos Road Intersection Detour



# Okemos Rd Bridge Construction ICRD

## Okemos Road Bridge Detour



# M-43 Project Global Signing



Static Signs

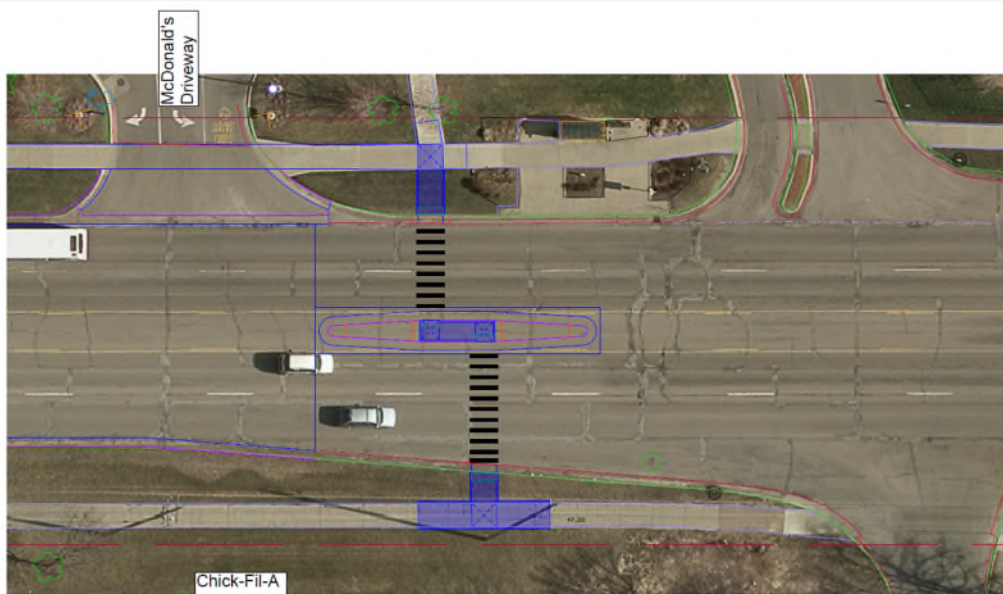
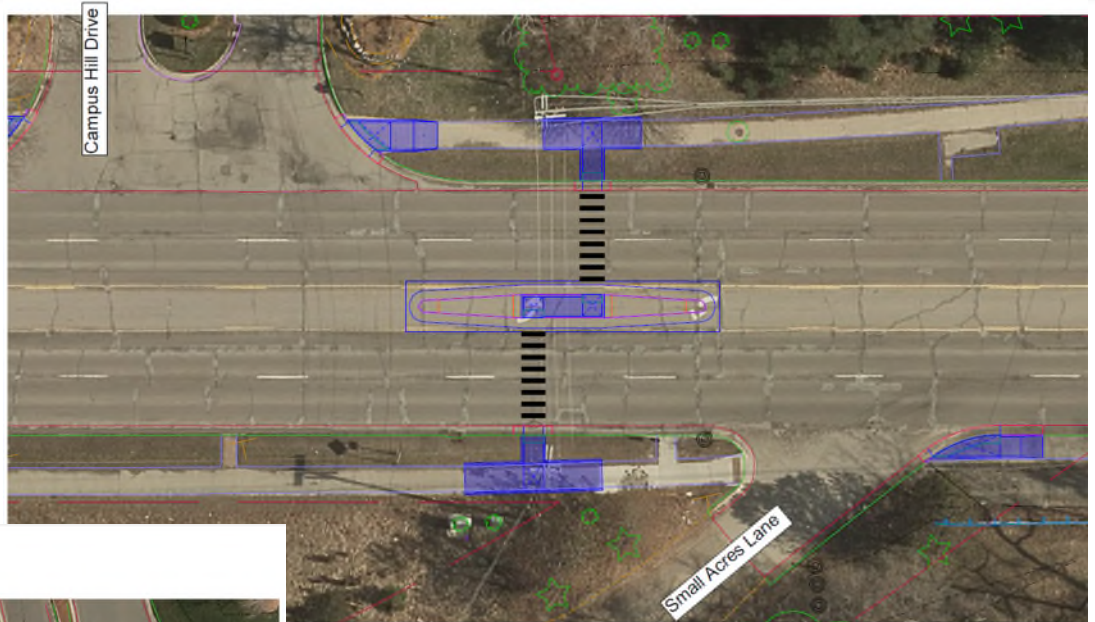
DMS

PCMS

SP-3  
(66"X66")

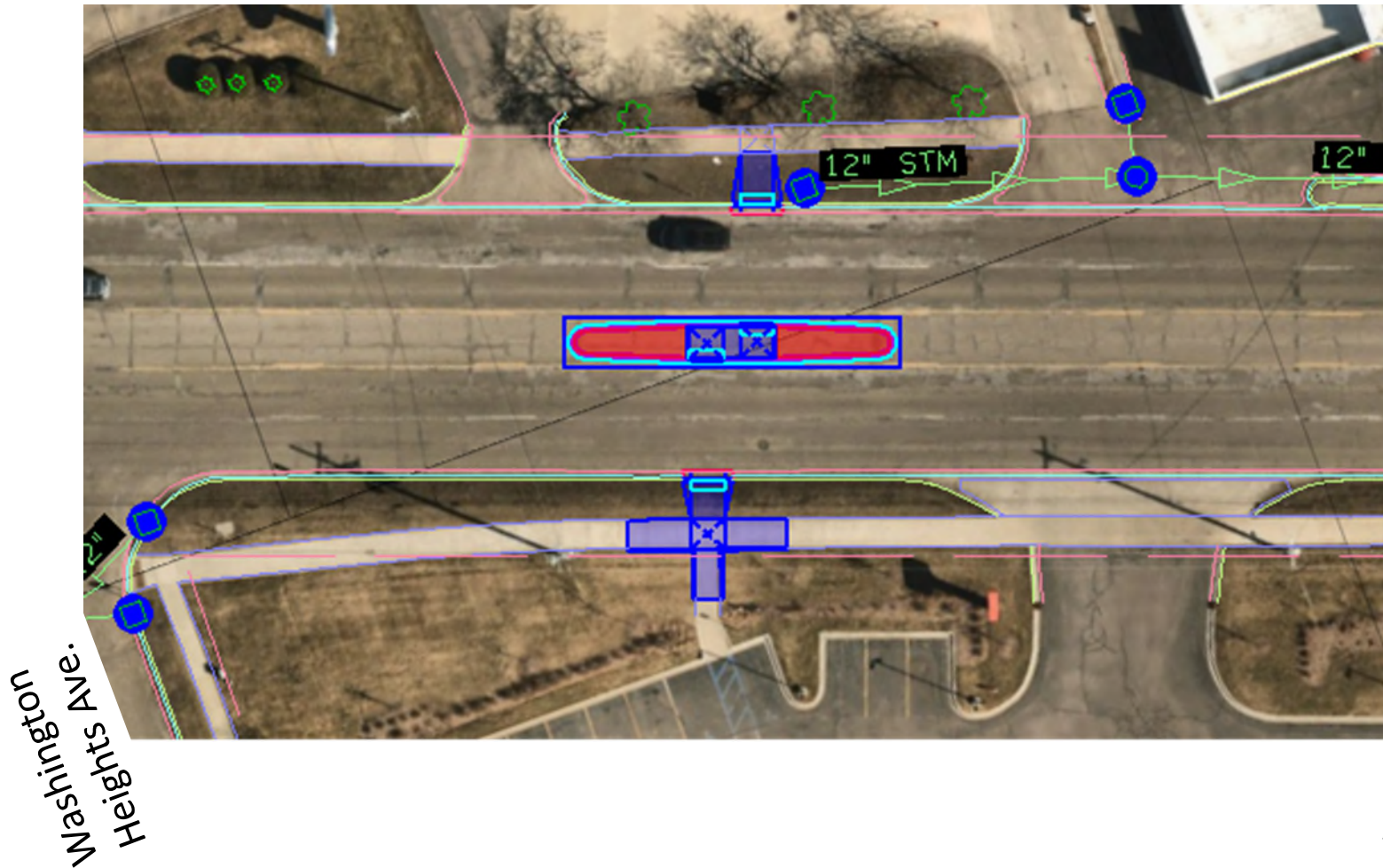


# Pedestrian Islands

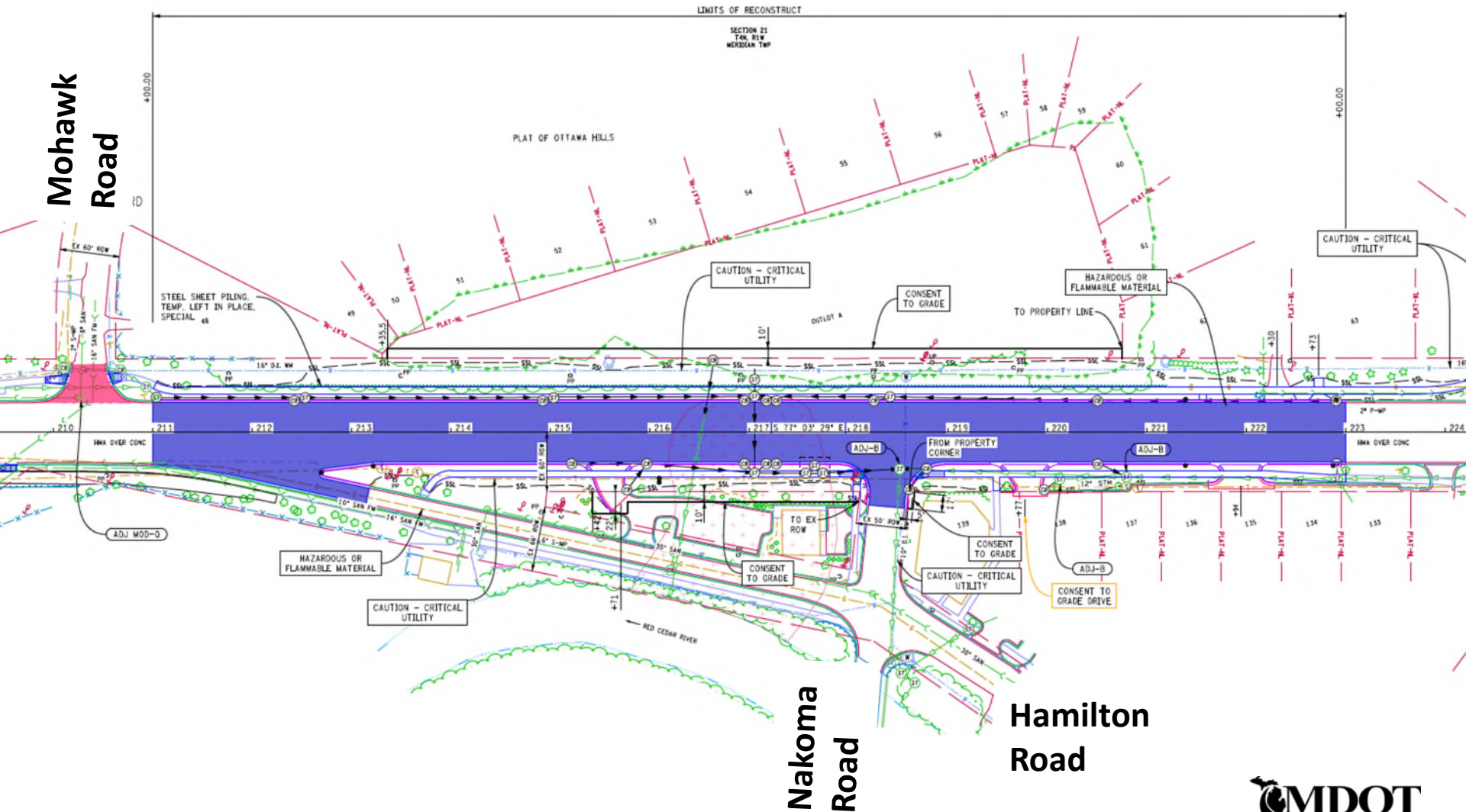




# Pedestrian Islands



# Nakoma Reconstruct Limits

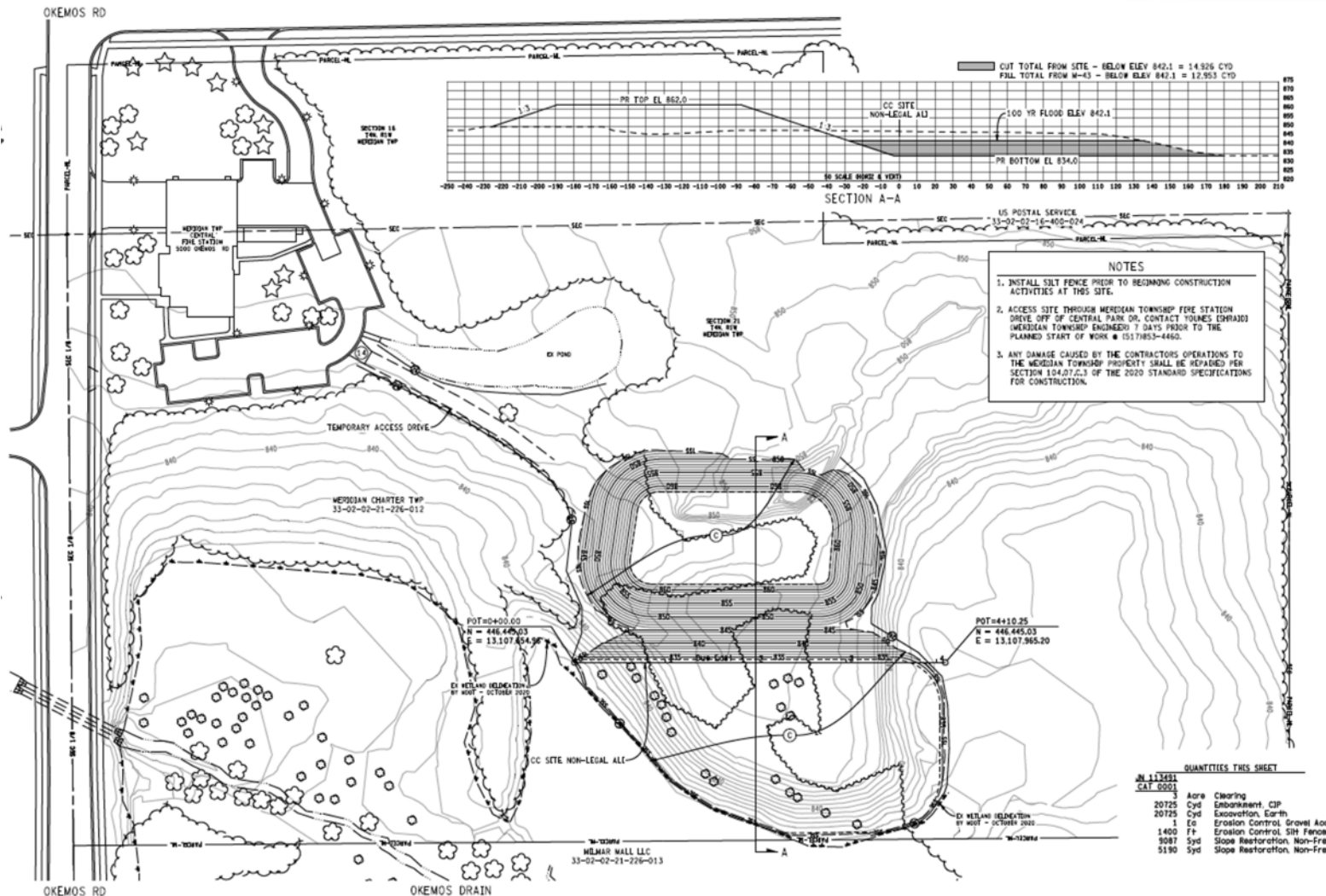




**Hillcrest Ave**



# 100-yr Floodplain Fill Mitigation



# Future Outreach

## Future Scheduled Public Meetings:

- Tentative In-Person Meetings in March
- Additional meetings as-needed/requested throughout the project

## M-43 Project Website (coming soon)

- Check website for updates, presentation slides, future meeting links, dates and times, and other additional information

# Questions and Answers

Contact: MDOT Lansing TSC  
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(517) 335-3754